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(54) Title: STABLE HIGH pI HYDROGEL COMPOSITIONS

(57) Abstract: The invention provides a hydrolytically stable isoelectric hydrogel material having a pI value in the range of 11.5 < pI < 14, that is comprised of an isoelectric compound having a pI value in the range of 11.5 < pI < 14. The pI of the isoelectric compound and thus, the pI of the hydrolytically stable isoelectric hydrogel material, is conferred by the pI value of the isoelectric compound. The hydrolytically stable isoelectric hydrogel material may further comprise a hydrolytically stable hydrophilic polymer and a cross-linker. The invention also provides a hydrolytically stable isoelectric membrane that comprises the hydrolytically stable isoelectric hydrogel material, and methods for preparing a hydrolytically stable isoelectric membrane.



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